IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT:

Thackeray et al.

EXPRESS MAIL LABEL NO. ET495752953US

FILED:

Herewith

FOR:

ANTIHALATION COMPOSITIONS

THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS WASHINGTON, DC 20231 SIR:

PRELIMINARY AMENDMENT

Applicants file herewith the above-referenced application. Please amend the referenced application as follows.

IN THE CLAIMS

Please cancel claims 1-35 without prejudice.

Please add the following new claims.

- 36. A coated substrate comprising:
- a substrate having thereon:
- a coating layer of an antireflective composition, the antireflective composition comprising a benzoguanamine crosslinker; and
 - a coating layer of a photoresist composition over the antireflective layer.
- 37. The substrate of claim 36 wherein the antireflective composition layer is crosslinked.
- 38. The substrate of claim 36 wherein the antireflective composition comprises a benzoguanamine resin.

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- 39. The substrate of claim 36 wherein the antireflective composition further comprises a melamine crosslinker component.
- 40. The substrate of claim 36 wherein the antireflective composition comprises a thermal acid generator.
- 41. The substrate of claim 36 wherein the antireflective composition comprises an anthracene material.
 - 42. The substrate of claim 36 wherein the substrate is a microelectronic wafer.
 - 43. A coated substrate comprising:
 - a substrate having thereon:
- a coating layer of an antireflective composition, the antireflective composition comprising a crosslinker and an anthracene material; and
 - a coating layer of a photoresist composition over the antireflective layer.
- 44. The substrate of claim 43 wherein the antireflective composition layer is crosslinked.
- 45. The substrate of claim 43 wherein the antireflective composition comprises a thermal acid generator.
 - 46. The substrate of claim 43 wherein the substrate is a microelectronic wafer.

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47. A method for forming a relief image on a substrate comprising: applying on the substrate a layer of an antihalation composition comprising a benzoguanamine crosslinker;

applying over the antihalation composition layer a photoresist composition.

- 48. The method of claim 47 wherein the antihalation composition layer is crosslinked prior to applying the photoresist composition.
- 49. The method of claim 47 wherein the antireflective composition comprises a benzoguanamine resin.
- 50. The method of claim 47 wherein the antireflective composition further comprises a melamine crosslinker component.
- 51. The method of claim 47 wherein the antireflective composition comprises a thermal acid generator.
- 52. The method of claim 47 wherein the antireflective composition comprises an anthracene material.
 - 53. The method of claim 47 wherein the substrate is a microelectronic wafer.
- 54. A method for forming a relief image on a substrate comprising: applying on the substrate a layer of an antihalation composition comprising an anthracene material;

applying over the antihalation composition layer a photoresist composition.

- 55. The method of claim 54 wherein the antihalation composition layer is crosslinked prior to applying the photoresist composition.
- 56. The method of claim 54 wherein the antireflective composition comprises a thermal acid generator.
 - 57. The method of claim 54 wherein the substrate is a microelectronic wafer.

REMARKS

Claims 1-35 have been cancelled without prejudice, and claims 36-57 have been added. No new matter has been added by virtue of the amendments. For instance, support for the new claims appears e.g. page 8 and the original claims of the application.

Early consideration and allowance of the application are respectfully requested.

Respectfully submitted,

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MARKED UP VERSION TO SHOW CHANGES

- 20. (amended) A coated substrate comprising: a substrate having thereon
- 1) a coating layer of an antireflective composition of claim 18 [17]; and
- 2) a coating layer of a photoresist.